

CLAIMS

*Sub B1* 1. A gas generating composition comprising a fuel made of nitroguanidine, guanidine nitrate or a mixture thereof and an oxidizing agent.

2. The gas generating composition according to claim 1, wherein the oxidizing agent is a perchloric acid salt, a nitric acid salt or a mixture thereof, and the perchloric acid salt and the nitric acid salt are salts containing a cation selected from the group consisting of ammonium, alkali metals and alkaline earth metals.

3. The gas generating composition according to claim 1, wherein the oxidizing agent is ammonium perchlorate, and further contains a chlorine neutralizer.

*Sub B2* 4. The gas generating composition according to claim 3, wherein the chlorine neutralizer is a compound containing a cation selected from the group consisting of alkali metals and alkaline earth metals.

5. The gas generating composition according to claim 1, wherein the content of the fuel is between 35 and 80% by weight, and the content of the oxidizing agent is between 65 and 20% by weight.

6. The gas generating composition according to claim 1, which further comprises a binder or a combustion catalyst as an additive.

7. The gas generating composition according to claim 1, wherein an amount of a combustion residue based on an amount of a gas generated is 12 g/mol or less.

8. An inflator system using the gas generating composition according to claim 1.

9. A gas generating method using a gas generated by burning a fuel, in which the gas generating composition according to claim 1 is used as a fuel to decrease an amount of a combustion residue and improve a gas output.